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Amendments to the Claims

1. (Currently Amended) A method of identifying and managing network

clements in a communication system, the method comprising:

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representing a network element feature as a logical entity;

defining one or more characteristics associated with the logical entity

network element, which characteristics are related to functional attributes of the

represented network element feature with respect to the communication system,

wherein each characteristic has a plurality of possible values; and

defining one or more profiles for the logical entity representing the network

element feature, wherein each profile assigns a each characteristic, the one or

more profiles assigning specific value[s] to said each characteristic of the logical

entity.

2. (Original) The method of claim1 wherein the communication system

comprises a SONET ring network, and wherein the network elements comprise

network interface devices or transmission links between network interface

devices.

3. (Original) The method of claim 2 wherein the network element

feature is a network hardware device.

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4. (Original) The method of claim 2 wherein the network element

feature is a data signal.

5. (Original) The method of claim 1 wherein each network element of

the communication system is assigned a profile of the one or more profiles.

6. (Original) The method of claim 5 wherein the one or more

characteristics comprise failure conditions associated with the network elements,

and wherein the one or more profiles define alarm levels generated for each

failure condition.

7. (Original) The method of claim 6 wherein the alarm levels indicate

a type of alarm transmitted to a network administrator of the communication

system if a corresponding failure condition is detected by the network element

represented by the logical entity.

8. (Original) The method of claim 5 wherein the one or more

characteristics comprise performance characteristics associated with the

network elements, and wherein the one or more profiles define alert levels

generated for each performance characteristic.

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9. (Original) The method of claim 8 wherein the alert levels indicate

a type of alert transmitted to a network administrator of the communication

system if a corresponding performance measurement is detected by the network

element represented by the logical entity.

10. (Original) The method of claim 5 wherein the one or more

characteristics comprise user characteristics associated with users of the

network elements, and wherein the one or more profiles define user attributes for

each user.

11. (Currently Amended) A network node for use in a communication

network, the network node comprising:

means for representing a feature of the network node a logical entity;

means for defining one or more characteristics associated with the logical

entity network node, which characteristics are related to functional attributes of

the represented network node element with respect to the communication

network, wherein each characteristic has a plurality of possible values; and

means for defining one or more profiles for the logical entity representing

the network node, wherein each profile assigns a each characteristic, the one or

more profiles assigning specific value to said each characteristic of the logical

entity.

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12. (Original) The network node of claim 11 wherein the

communications network comprises a SONET network and wherein the

network node comprises one of a network interface device and a transmission

link between network interface devices coupled to the communications

network.

13. (Original) The network node of claim 12 wherein the feature of

the network node is a network hardware device.

14. (Original) The network node of claim 12 wherein the feature of

the network node is a data signal.

15. (Original) The network node of claim 11 wherein the network

node is assigned a profile of the one or more profiles.

16. (Original) The network node of claim 15 wherein the one or more

characteristics comprise failure conditions associated with the network node,

and wherein the one or more profiles define alarm levels generated for each

failure condition.

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17. (Original) The network node of claim 16 wherein the alarm levels

indicate a type of alarm transmitted to a network administrator of the

communication network if a corresponding failure condition is detected by the

network element represented by the logical entity.

18. (Original) The network node of claim 15 wherein the one or more

characteristics comprise performance characteristics associated with the

network node, and wherein the one or more profiles define alert levels

generated for each performance characteristic.

19. (Original) The network node of claim 18 wherein the alert levels

indicate a type of alert transmitted to a network administrator of the

communication system if a corresponding performance measurement is

detected by the network element represented by the logical entity.

20. (Original) The network node of claim 15 wherein the one or more

characteristics comprise user characteristics associated with a user of the

network node.

21. (Previously Presented) The method of claim 1, further including

modifying the one or more profiles for said each characteristic according to a

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user preference

22. (Previously Presented) The network node of claim 11, further including means for modifying the one or more profiles for said each characteristic according to a user preference.